GOVERNMENT OF GOA QUALITY CONTROL LABORATORY WATER RESOURCES DFEPARTMENT

<u>Test Report No.</u>: WRD/Q.C./F.6-4/ Aggr -T- 9683, 9684 /Lab/ 151 /2020-21

Dated: 05/12/2020.

Laboratory: Bicholim

Sand -T: 5055,5056,5057, Cement: 1196. Lat:T:0439

Sub Div: V (QC)/WRD/Bicholim Goa.

<u>Sub</u>: Construction of protection wall for nallah on both side from main road to Sagun Sinari House and Govind parab house to Shekri at Pimpalwada, Amona in Bicholim Taluka. **Ref to requisition No**: SDI/WDVI/WRD/F.W. 226/2020-21/348 Dated: 25/11/2020.

Oty. Received: 1 bags of Date of Receipt: 28/11/2020 Tested on:30/11/2020, 01,02 & 03/12/2020 Ref to Specification: CPWD 2009, Vol. I & IS:4031-4-1968 Sample: Sand ,20mm, O.S. No. 4302,4303,4307,4316,4325,4308 & 4301 /SS Lab. Sample No.: 9584 To 9590 Tested by: Mrs. S. B. Naik Shirodkar.JE. 12.5mm size aggrt, & 1 bags cement.

REPORT 01 OF 02

Sr. No.	Description of sam	ple Tested for	Results	Max./N	Iin. value permissible	Remarks
1. 2.	20 mm Size Agg 12.5 mm Size Ag			l aggregate of 20 mm ized aggregate of 12.	n nominal size. (Qty. rep. – 5 mm nominal size. (Qty. rep. –	m ³)
		<u></u>			regates at the ratio of <u>1:2</u> by wate of 20 mm nominal size.	veight; it is
3.	Course Sand: (L.S.No.9586)	i) Silt & Clay by S.A. methodii) Silt by sedimentationiii) Fineness Modulusiv) Grading Zone		Fine <u>Sand:</u> (L.S.No.9587)	i) Silt & Clay by S.A. methii) Silt by sedimentationiii) Fineness Modulusiv) Grading Zone	
		REMARK : The observed res	sults are within the po	ermissible limits of t	the coarse and Fine sand.	
-	Crushed Sand: (L.S.No.9588)	iii) Fineness Modulus :	- 12.20% (Limit - 14.77% - 3.172 - I	of Deleterious mater	ial is 15.00% for crushed sand)	

The object tent results are within the perimposite initial for crushed suita (1 interinguity) that tubic 2 of 15 coct 2010 (change cizet).

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REPORT 02 OF 02

Sr. No.	Description of sample	Tested for	Results	Max. /Min. value permissible	Remarks			
6.	Laterite stone	A) Compressive strength	test: - i) 25.81 Kg/cm^2	35.00kg/cm^2				
			ii) 33.33 Kg/cm^2					
			$\underline{\text{iii}}$) 30.10 Kg/cm ²					
			Avg. 29.74 Kg/cm^2					
	Remark: - The average Compressive strength achieved is 15.02 % more than the specified value of 35 Kg/cm ² .							
		B) Water Absorption 7	Test. i) 10.00 %					
			ii) 11.50 %					
			<u>iii) 11.00 %</u>					
			Avg. 10.83 %	12.00 %				
	Remark: The average w	vater absorption is 10.83 %,	which is less than the maxim	um permissible limit of 12%.				
7.	Cement:		i) Fineness of Cement	: 1.37 % (It should n	ot be more than 10%)			
	Jyoti cement, beari	ng IS:269	ii) Consistency of cement	: 32.00% (It should be in the neighborhood)	ghborhood of 35%)			
	Ordinary Portland c	ement,	iii) Initial Setting Time	: 165 minutes (It should not be	be less than 30 minutes)			
	Manuf. date: Week	, Month, Year'2020.	iv) Final Setting Time	: 310 minutes (It should not be	more than 600 minutes			
	CM/L =	<u> </u>	,	· ·				
	Qty. rep. –							
Tobox	- • •		re within the normissible lim	it for Ordinary Portland cement.				

Copy to: 1. The Assistant Engineer, SDI, WDVI, WRD, Bicholim – Goa.

- 2. Copy Submitted to The Superintending Engineer, CPO, WRD, Porvorim Goa for kind information.
- 3. Copy Submitted to The Executive Engineer, W.D. VI, WRD, Bicholim Goa.
- 4. Q.C. Lab file
- 5. Bill File.